

SEQUENCE LISTING

<110> National Institute of Advanced Industrial Science and Technology

KANKYO ENGINEERING Co., Ltd.

<120> NOVEL NUCLEIC ACID PROBES, METHOD FOR DETERMINING CONCENTRATIONS OF NUCLEIC ACID BY USING THE PROBES, AND METHOD FOR ANALYZING DATA OBTAINED BY THE METHOD.

<150> JP2000/193133

JP2000/236115

JP2000/292483

<151> June 27, 2000

<160> 69

<210> 1

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 1

gggggggaaaa aaaaa 15

<210> 2

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 2

ttttttttttc ccccc 15

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was hybridized with 16S RNA gene of Escherichia coli.

<400> 3

ctg cct ccc gta gga gt 20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was hybridized with 23S RNA gene of Escherichia coli JM109

<400> 4

ccc aca tcg ttt tgt ctg gg

20

<210> 5

<211> 30

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 5

atatatatattt tttttttgttt ttttttttttt

30

<210> 6

<211> 30

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 6

atatatatattt tttttttgttt ttttttttttt

30

<210> 7

<211> 30

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 7

atatatatattt ttttttttgtt ttttttttttt

30

<210> 8

<211> 30

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 8

atatatatattt ttttttttttg ttttttttttt

30

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 9
atatatatattt ttttttctttt ttttttttttt 30

<210> 10
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 10
atatatatattt ttttttctttt ttttttttttt 30

<210> 11
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 11
atatatatattt ttttttttctt ttttttttttt 30

<210> 12
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 12
atatatatattt tttttttttct ttttttttttt 30

<210> 13
<211> 30
<212> DNA
<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 13

atatatatattt ttttttttttc ttttttttttt

30

<210> 14

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 14

aacaaaaaaaaa atatatat

18

<210> 15

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 15

acaaaaaaaaa atatatat

18

<210> 16

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 16

caaaaaaaaaa atatatat

18

<210> 17

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 17

aaaaaaaaaa atatatat

18

<210> 18

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 18

aagaaaaaaaa atatatat

18

<210> 19

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 19

agaaaaaaaaa atatatat

18

<210> 20

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 20

gaaaaaaaaaa atatatat

19

<210> 21

<211> 20

<212> DNA

<213> Artificial

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 21

tatatatata tttttggggg

20

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 22

tatatatata ttttttggg 20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 23

tatatatata ttttttggg 20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 24

tatatatata ttttttttg 20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 25

tatatatata ttttttttg 20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 26
tatatatata tttttccccc 20

<210> 27
<211> 20
<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 27
tatatatata ttttttccccc 20

<210> 28
<211> 20
<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 28
tatatatata tttttttccc 20

<210> 29
<211> 20
<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 29
tatatatata ttttttttcc 20

<210> 30
<211> 20
<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 30
tatatatata tttttttttc 20

<210> 31
<211> 20

<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 31
tatatatata tttttttttt 20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 32
cccccaaaaa tatatatata 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 33
cccccaaaaa tatatatata 20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 34
cccccaaaaa tatatatata 20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the

probe with a target nucleic acid.

<400> 35

ccaaaaaaaaa tatatatata 20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 36

caaaaaaaaaa tatatatata 20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 37

gggggaaaaa tatatatata 20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 38

ggggaaaaaa tatatatata 20

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 39

gggaaaaaaa tatatatata 20

<210> 40

<211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
 <400> 40
 ggaaaaaaaa tatatatata 20

<210> 41
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
 <400> 41
 gaaaaaaaaa tatatatata 20

<210> 42
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
 <400> 42
 aaaaaaaaaa tatatatata 20

<210> 43
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
 <400> 43
 cccccctttt tttttttt 18

<210> 44
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 44

gggggggaaaa aaaaaaaa 18

<210> 45

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 45

ttttttcccc cccccccc 18

<210> 46

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 46

aaaaaagggg gggggggg 18

<210> 47

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 47

aaaaaaaaag ggggg 15

<210> 48

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 48

tttttttttc ccccc 15

<210> 49
 <211> 15
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
 <400> 49
 ggggggggga aaaaa 15

<210> 50
 <211> 15
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
 <400> 50
 cccccccct ttttt 15

<210> 51
 <211> 35
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806), which sequence is corresponding to the positions 1156 to 1190 of 16SrRNA in Escherichia coli JM109 strain. The oligonucleotide is an oligodeoxyribonucleotide in positions 1 to 16 and 25 to 35, and is an oligoribonucleotide in positions 17 to 24.
 <400> 51
 catccccacc ttcctccgagt tgaccccg cagtc 35

<210> 52
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).
 <400> 52
 tcctttgagt tcccggccgg a 21

<210> 53
 <211> 32
 <212> RNA
 <213> Artificial Sequence
 <223> The RNA hybridizes specifically with a sequence of 16SrRNA

in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 53

ccctggtcgt aagggccatg atgacttgac gt 32

<210> 54

<211> 35

<212> RNA

<213> Artificial Sequence

<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 54

catccccacc ttcctccgag ttgaccccg cagtc 35

<210> 55

<211> 17

<212> RNA

<213> Artificial Sequence

<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 55

ccttcctccg agttgac 17

<210> 56

<211> 35

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 56

catccccacc ttcctccgag ttgaccccg cagtc 35

<210> 57

<211> 36

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Agromobacterium sp. KYM-8(FERM P-11358).

<400> 57

catccccacc ttcctctcggc ttatcacgc gcagtc 36

<210> 58

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 58

cttttttttt ccccccccc

19

<210> 58

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 58

tttttttttt ccccccccc

19

<210> 60

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 60

gggggggggaa aaaaaaag

18

<210> 61

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 61

gggggggggaa aaaagaaa

18

<210> 62

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 62

cgggggggggt ttttttt

17

<210> 63

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 63

aaaaaaaaacc ccccca 17

<210> 64

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 64

aaaaaaaaacc cccccc 17

<210> 65

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 65

aaaaaaaaacc ccccci 17

<210> 66

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 66

aaaaaaaaacc ccccccg 17

<210> 67

<211> 50

<212> DNA

<213> Artificial Sequence

<223>

<400> 67

aaacgatgtg gcaaggcca gacagccagg atgttggtt agaagcagcc 50

<210> 68

<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 68
ccttcccaca tcgtttt 16

<210> 69
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 69
ccttcccata tcgtttt 16

<210> 70
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 70
ccttccc aaa tcgtttt 16

<210> 71
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 71
ccttcccaga tcgtttt 16

<210> 72
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 72
ccttccctga tcgtttt 16

<210> 73

<211> 16

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 73
ccttccctgt tcgtttt 16

<210> 74

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.

<400> 74
catcgtttac ggcgtggac 19

<210> 75

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.

<400> 75
ccagcagccg cggtataac 19

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.

<400> 76
agagtttgat cctggctcag 20

<210> 77

<211> 19

<212> DNA

<213> Artificial

<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.

<400> 77
ggttaccttg ttacgactt 19

<210> 78
 <211> 14
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.
 <400> 78
 cgggcggtgt gtac 14

<210> 79
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with the human -globin gene.
 <400> 79
 ctggtctcct taaacctgtc ttg 23

<210> 80
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with the human -globin gene.
 <400> 80
 ggttggccaa tctactccca gg 22

<210> 81
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16S RNA of Escherichia coli
 <400> 81
 citaacacat gcaagtcg 18

<210> 82
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with . 16S RNA of Escherichia coli
 <400> 82
 ttgtacacac cgcccgta 19

<210> 83
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16S RNA gene of Paracoccus
 denitrificans DSM 413
 <400> 83
 ctaatccttt ggccataaa tc 22

<210> 84
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16S RNA gene of Paracoccus
 denitrificans DSM 413
 <400> 84
 agagtttgat cctggctc ag 20

<210> 85
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with . 16S RNA gene of Paracoccus
 denitrificans DSM 413
 <400> 85
 ggttaccttg ttacgactt 19

<210> 86
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridized with of the sequence of the above
 no.83
 <400> 86
 gatttatcgc caaaggatta g 21

<210> 87
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with the sequence of the above
 no..83.
 <400> 87
 gatttatcgt caaaggatta g 21

<210> 88
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> A sequence of the CYP21 gene of human.
 <400> 88
 cgcagccgag catggaaca 19

<210> 89

<211> 16
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human.
<400> 89

cgctgctgcc ctccgg 16

<210> 90
<211> 19
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human..
<400> 90

aagggcacgt gcacatggc 19

<210> 91
<211> 22
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human..
<400> 91

catcgtggag atgcagctga cg 22

<210> 92
<211> 25
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human...
<400> 92

cctgcagcat catctgttac ctcac 25

<210> 93
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.88...

<400> 93
tcttccatgc tcggctgcg 19

<210> 94
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.88...

<400> 94
tcttccatgg tcggctgcg 19

<210> 95
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.89...
<400> 95
ccggagggca gcagcg 16

<210> 96
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.89...
<400> 96
ccggaggaca gcagcg 16

<210> 97
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.90...
<400> 97
gccatgtgca cgtgccctt 19

<210> 98
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.90..
<400> 98
gccatgtgca agtgccctt 19

<210> 99
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.91...
<400> 99
gcctgccacg aggctctcc 19

<210> 100
<211> 19
<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with the sequence of the above no.91...

<400> 100

gcctgccacc aggctctcc

19

<210> 101

<211> 25

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with the sequence of the above no.92.

<400> 101

gtgaggtaac agatgatgct gcagg

25

<210> 102

<211> 25

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with the sequence of the above no.92..

<400> 102

gtgaggtaac agttgatgct gcagg

25

<210> 103

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 103

cttggggggg catatctg

18

<210> 104

<211> 22

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 104

acatccggct.ttgactctct ct

22

<210> 105

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 105

aagggcacgt gcacatggc

19

<210> 106

<211> 26

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 106

cctgcagcat catctgttac ctcac

26

<210> 107

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 107

aagggcacgt gcacatggc

19

<210> 108

<211> 25

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 108

cctgcagcat catctgttac ctcac

25